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<b>Author(s)</b> : A.C.Raghuram, R.Rangaraju, R.V.Krishnan			<b>Date of issue</b> : July 1989  <b>Contents</b> 3 pages 2 figures
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<b>Abstract</b> : This is an analysis of the fracture in the vane of the Kaplan Turbine of Tungabhadra Hydroelectric Scheme. The vane is found to have failed in fatigue.			